

# Executive Summary Report

## SMOG CHECK Statewide

Third Quarter 2011

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	3,100,722	352,734	11.38%
Total	3,517,369	447,967	12.74%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	2,721,586	87.77%	379,136	12.23%
Total	3,030,371	86.15%	486,998	13.85%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	1,720,739	87.07%	255,482	12.93%
Total	1,935,357	85.92%	317,230	14.08%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	39,501	1.27%
All Emissions	178,424	5.75%
All Visual	41,048	1.32%
All Functional	215,681	6.96%
OBDII	144,798	4.67%
Overall	352,734	11.38%

### 5. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	1,158,285	1,061,583
Directed Vehicles	817,936	659,156
Total	1,976,221	1,720,739

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	185,984	164,602
Directed Vehicles	68,801	51,495
Total	254,785	216,097

### 7. Number of Stations by Type/Privilege and Program Area

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,599	285	543	32	0	4,459
Test Only	2,644	49	27	1	0	2,721
Basic Area Dealer	0	1	104	0	0	105
Gold Shield	487	29	48	77	0	641
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	30	1	4	0	0	35
Referee	36	0	6	1	0	43
Government Fleet	247	9	37	2	0	295
Unknown Type	1	0	0	0	0	1
Total	7,047	374	769	113	0	8,303

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	2,499,729	292,238	11.69%	31,971	1.28%
Partially Enhanced	155,191	20,243	13.04%	2,300	1.48%
Basic	283,655	25,129	8.86%	3,183	1.12%
Change of Ownership	17,220	2,184	12.68%	479	2.78%
No Program	19	4	21.05%	1	5.26%
Unknown Program	144,908	12,936	8.93%	1,567	1.08%
Total Program Area	3,100,722	352,734	11.38%	39,501	1.27%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	1,976,221	251,267	12.71%	28,837	1.46%
Regular	844,121	62,713	7.43%	6,062	0.72%
Basic Area Dealer	18,207	634	3.48%	33	0.18%
Gold Shield in Enhanced Area	199,332	30,230	15.17%	3,387	1.70%
Gold Shield in Basic Area	36,820	4,421	12.01%	628	1.71%
Gold Shield in COO Area	18,633	2,304	12.37%	413	2.22%
Business Fleet	8	0	0.00%	0	0.00%
Permanent Fleet Registered	150	13	8.67%	0	0.00%
Referee	1,419	647	45.60%	88	6.20%
Government Fleet	5,810	504	8.67%	52	0.90%
Unknown Privilege	1	1	100.00%	1	100.00%
Total	3,100,722	352,734	11.38%	39,501	1.27%

**10. Initial Tests by Vehicle Model Year**

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1958	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1973	3	3	100.00%	66.67%	66.67%	66.67%	100.00%	0.00%
MY-1975	1	1	100.00%	0.00%	0.00%	100.00%	100.00%	0.00%
MY-1976	3,109	870	27.98%	19.85%	8.11%	13.64%	6.95%	0.00%
MY-1977	4,467	1,211	27.11%	18.83%	7.75%	14.26%	7.34%	0.00%
MY-1978	4,928	1,364	27.68%	19.60%	8.52%	14.00%	7.47%	0.00%
MY-1979	5,390	1,660	30.80%	22.34%	9.18%	16.29%	8.50%	0.00%
MY-1980	3,251	852	26.21%	19.62%	9.57%	13.13%	7.17%	0.00%
MY-1981	3,740	1,178	31.50%	25.32%	10.00%	15.13%	8.69%	0.00%
MY-1982	4,228	1,283	30.35%	24.24%	9.13%	14.40%	7.52%	0.00%
MY-1983	6,031	1,848	30.64%	25.05%	9.02%	13.58%	7.31%	0.00%
MY-1984	10,115	3,246	32.09%	26.52%	10.23%	14.12%	7.01%	0.00%
MY-1985	14,180	4,389	30.95%	25.44%	8.91%	13.81%	6.00%	0.00%
MY-1986	20,846	6,028	28.92%	22.89%	8.08%	13.29%	5.73%	0.00%
MY-1987	22,919	7,175	31.31%	25.29%	8.59%	13.82%	5.47%	0.00%
MY-1988	28,643	8,195	28.61%	22.87%	6.87%	12.55%	4.45%	0.00%
MY-1989	39,671	10,564	26.63%	20.74%	5.58%	12.10%	4.16%	0.00%
MY-1990	48,521	12,598	25.96%	20.93%	5.48%	11.14%	3.44%	0.00%
MY-1991	59,392	14,968	25.20%	20.09%	5.03%	10.57%	2.98%	0.00%
MY-1992	59,979	14,725	24.55%	19.63%	4.78%	9.75%	3.03%	0.00%
MY-1993	76,445	19,900	26.03%	21.29%	4.17%	9.58%	2.97%	0.00%
MY-1994	83,106	20,039	24.11%	18.99%	3.39%	9.19%	2.95%	0.00%
MY-1995	131,998	26,777	20.29%	15.45%	2.41%	7.58%	2.38%	0.00%
MY-1996	92,530	17,123	18.51%	9.39%	1.37%	11.44%	1.88%	10.40%
MY-1997	175,973	25,419	14.44%	6.54%	0.96%	9.18%	1.35%	8.42%
MY-1998	134,732	18,507	13.74%	5.71%	0.86%	9.30%	1.37%	8.72%
MY-1999	240,191	22,425	9.34%	2.98%	0.48%	6.84%	1.01%	6.43%
MY-2000	145,145	15,437	10.64%	2.98%	0.60%	8.20%	1.09%	7.95%
MY-2001	364,405	33,618	9.23%	1.25%	0.24%	8.20%	0.68%	8.06%
MY-2002	122,636	11,424	9.32%	1.61%	0.31%	8.10%	0.85%	8.02%
MY-2003	435,617	23,938	5.50%	0.68%	0.13%	4.83%	0.49%	4.76%
MY-2004	98,774	5,483	5.55%	0.94%	0.14%	4.74%	0.57%	4.69%
MY-2005	484,729	16,622	3.43%	0.38%	0.07%	2.93%	0.34%	2.89%
MY-2006	57,697	1,766	3.06%	0.86%	0.08%	2.44%	0.41%	2.40%
MY-2007	53,131	1,193	2.25%	0.56%	0.04%	1.82%	0.23%	1.77%
MY-2008	25,064	388	1.55%	0.64%	0.03%	1.25%	0.16%	1.21%
MY-2009	12,949	174	1.34%	0.64%	0.05%	1.07%	0.15%	1.05%
MY-2010	17,402	233	1.34%	0.22%	0.03%	1.07%	0.12%	1.03%
MY-2011	8,365	104	1.24%	0.27%	0.00%	1.06%	0.14%	0.99%
MY-2012	418	6	1.44%	0.00%	0.00%	1.44%	0.00%	1.44%
All Model Years	3,100,722	352,734	11.38%	5.75%	1.27%	6.96%	1.32%	4.67%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	1,335
Certificate of Non Compliance	2
Parts Cost	392
Hardship Extensions	1
Exempt Vehicle	116
Exempted by Directive	22
Parts Exemption	40
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	1
	<b>1,909</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	948
Stations Locked-Out at Least Once	847
Stations Conducted at Least One Test	7,355

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,742	5,670
EA	Gas Endorsement	9	0
EB	Both Endorsement	46	0
EB	Gas Endorsement	485	0
EU	Both Endorsement	1	0
GU	Both Endorsement	20	0

**14. Inspection Costs**

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	1,672,446	47.59	250,574	48.80	1,923,020	47.75
Test and Repair	522,809	46.52	290,264	46.36	813,073	46.46
Test and Repair Dealer	118	61.35	16,697	52.48	16,815	52.54
Referee	595	30.00	213	30.00	808	30.00
Gold Shield in Enhanced Area	166,504	46.45	27,939	48.06	194,443	46.68
Gold Shield in Basic Area	1,647	61.87	33,973	39.90	35,620	40.92
Gold Shield in COO Area	4,736	53.40	13,059	54.34	17,795	54.09

**15. Repair Costs**

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$1-50	13,991	22.85	<b>53,628</b>	<b>283.49</b>
	\$51-150	10,384	100.81		
	\$151-250	8,113	201.72		
	\$251-450	10,628	340.57		
	Over \$450	10,512	816.25		
CAP Repairs	\$1-50	215	22.94	<b>8,534</b>	<b>460.36</b>
	\$51-150	414	107.64		
	\$151-250	644	206.63		
	\$251-450	2,351	359.22		
	Over \$450	4,910	590.96		
Total Repairs	\$1-50	11,133	23.24	<b>56,165</b>	<b>340.63</b>
	\$51-150	9,855	101.29		
	\$151-250	8,037	201.94		
	\$251-450	12,082	343.83		
	Over \$450	15,058	803.41		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	7,965	460.36

**17. Drill-Through**

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Basic Area	12	4	0	1	1	1	2	1
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	30	9	2	1	3	4	3	2

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Referee	2	2	0	1	0	1	2	1
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	221	36	2	0	15	15	21	2
Acceleration Simulation Mode (ASM)	Basic	Test Only	250	33	5	0	9	23	15	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	0	2	1	0	0	2	1	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	26	4	1	0	1	2	2	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	34	5	1	0	2	3	3	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	1,135	222	24	13	75	105	119	38
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	3,652	665	67	33	280	314	417	74
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	123,330	24,123	2,594	1,305	9,939	12,252	14,888	3,202
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	184	12	2	111	58	132	3
Acceleration Simulation Mode (ASM)	Enhanced	Referee	357	387	51	143	96	194	228	197
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	379,287	27,431	2,182	1,519	15,506	9,999	19,481	2,907
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair Dealer	29	3	1	0	2	1	3	0
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	1,374,426	218,548	24,964	11,031	79,346	122,935	124,787	23,900
Acceleration Simulation Mode (ASM)	No Program	Test and Repair	4	1	1	0	0	1	1	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	214	58	10	0	24	34	31	3
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	193	34	3	1	14	16	24	5
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	10,601	2,320	281	123	942	1,183	1,448	264
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	5	1	0	2	1	4	0
Acceleration Simulation Mode (ASM)	Partial	Referee	23	29	9	14	1	13	14	22

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	62,480	9,787	1,029	446	3,451	5,474	5,557	968
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	65	5	0	0	1	2	2	1
Acceleration Simulation Mode (ASM)	Partial	Test Only	39,616	6,587	789	419	2,315	3,647	3,669	832
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	140	10	0	1	6	3	8	3
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	4,643	813	99	86	363	404	524	153
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	245	31	3	51	172	83	4
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	60	45	10	13	9	22	26	23
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	35,788	3,158	310	227	1,622	1,387	2,090	437
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	45,448	5,797	780	433	2,548	3,042	3,522	799
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	0	1	1	0	0	1	1	1
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	26,321	3,584	529	263	1,436	1,159	2,450	680
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	546	70	11	2	33	31	51	8
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	4,511	783	142	41	368	251	595	102
Two Speed Idle (TSI)	Basic	Government Fleet	0	14	1	0	11	2	12	0
Two Speed Idle (TSI)	Basic	Referee	54	71	7	32	14	15	46	46
Two Speed Idle (TSI)	Basic	Test and Repair	165,498	15,469	1,837	857	7,089	4,518	11,388	2,008
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	12,602	485	30	23	246	104	364	65
Two Speed Idle (TSI)	Basic	Test Only	34,364	4,055	617	267	1,761	1,456	2,773	559
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	211	51	6	4	19	21	33	11
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	5,577	974	238	71	318	451	610	137
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	299	65	15	7	22	26	47	16
Two Speed Idle (TSI)	Change of Ownership	Permanent Fleet Registered	0	1	0	0	0	1	0	0
Two Speed Idle (TSI)	Change of Ownership	Referee	4	14	2	9	4	4	8	11
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	5,158	571	122	49	205	231	403	95

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Change of Ownership	Test Only	2,926	469	93	30	166	191	327	72
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	1,894	214	34	32	110	63	149	42
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	2,063	166	26	13	94	50	119	22
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	18,001	1,660	221	86	1,008	411	1,290	203
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	38	6	0	21	13	25	0
Two Speed Idle (TSI)	Enhanced	Referee	80	43	5	10	23	11	32	15
Two Speed Idle (TSI)	Enhanced	Test and Repair	71,233	3,523	355	159	2,368	729	2,802	342
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	1,442	53	0	2	49	2	50	3
Two Speed Idle (TSI)	Enhanced	Test Only	182,576	13,287	1,429	601	8,662	2,999	10,235	1,318
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	160	23	3	1	8	7	13	5
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	167	18	5	2	9	7	11	2
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	1,180	146	24	9	88	40	107	17
Two Speed Idle (TSI)	Partial	Referee	5	1	0	1	0	1	0	1
Two Speed Idle (TSI)	Partial	Test and Repair	8,270	585	86	28	324	155	431	70
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	174	5	0	0	2	1	4	0
Two Speed Idle (TSI)	Partial	Test Only	4,687	381	60	22	212	115	260	54
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	1,191	179	22	18	67	52	130	39
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	3,065	334	63	31	125	146	217	58
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	1,217	98	9	5	73	18	83	11
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	12	1	0	10	1	12	0
Two Speed Idle (TSI)	Unknown Program	Referee	30	15	3	8	4	5	8	10
Two Speed Idle (TSI)	Unknown Program	Test and Repair	15,857	1,203	137	96	698	277	955	170
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	1,516	35	2	3	26	3	32	5
Two Speed Idle (TSI)	Unknown Program	Test Only	12,722	850	99	70	520	233	629	122
UnKnown TestType	Basic	Gold Shield in Basic Area	925	75	0	8	51	76	51	26
UnKnown TestType	Basic	Gold Shield in COO Area	43	6	0	2	3	6	3	3
UnKnown TestType	Basic	Gold Shield in Enhanced Area	279	17	0	2	13	17	13	6
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	10	0	0
UnKnown TestType	Basic	Referee	11	3	0	2	1	3	1	2

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Unknown TestType	Basic	Test and Repair	6,840	308	0	28	245	340	245	77
Unknown TestType	Basic	Test and Repair Dealer	1,116	39	0	9	22	47	22	19
Unknown TestType	Basic	Test Only	1,183	65	0	11	47	66	47	23
Unknown TestType	Change of Ownership	Gold Shield in COO Area	224	10	0	4	6	11	6	6
Unknown TestType	Change of Ownership	Gold Shield in Enhanced Area	11	2	0	0	1	2	1	1
Unknown TestType	Change of Ownership	Test and Repair	208	7	0	0	7	7	7	1
Unknown TestType	Change of Ownership	Test and Repair Dealer	19	2	0	1	0	2	0	2
Unknown TestType	Change of Ownership	Test Only	67	3	0	2	2	3	2	2
Unknown TestType	Enhanced	Gold Shield in Basic Area	81	7	0	1	6	8	6	1
Unknown TestType	Enhanced	Gold Shield in COO Area	209	9	0	1	7	11	7	2
Unknown TestType	Enhanced	Gold Shield in Enhanced Area	2,940	162	0	27	107	206	107	59
Unknown TestType	Enhanced	Government Fleet	0	4	0	0	4	93	4	0
Unknown TestType	Enhanced	Referee	55	14	0	7	5	14	5	8
Unknown TestType	Enhanced	Test and Repair	10,997	424	0	67	305	522	305	135
Unknown TestType	Enhanced	Test and Repair Dealer	93	1	0	0	1	2	1	1
Unknown TestType	Enhanced	Test Only	19,560	1,059	0	179	772	1,147	772	342
Unknown TestType	Partial	Gold Shield in Basic Area	34	2	0	0	1	2	1	1
Unknown TestType	Partial	Gold Shield in Enhanced Area	506	27	0	5	18	29	18	10
Unknown TestType	Partial	Government Fleet	0	0	0	0	0	1	0	0
Unknown TestType	Partial	Referee	3	5	0	3	1	5	1	3
Unknown TestType	Partial	Test and Repair	3,250	145	0	27	97	173	97	56
Unknown TestType	Partial	Test and Repair Dealer	45	1	0	0	1	1	1	0
Unknown TestType	Partial	Test Only	1,489	79	0	19	50	80	50	31
Unknown TestType	Unknown Program	Gold Shield in Basic Area	54	2	0	1	1	10	1	2
Unknown TestType	Unknown Program	Gold Shield in COO Area	206	8	0	3	3	10	3	5
Unknown TestType	Unknown Program	Gold Shield in Enhanced Area	198	5	0	2	2	11	2	3
Unknown TestType	Unknown Program	Government Fleet	0	1	0	0	1	127	1	0
Unknown TestType	Unknown Program	Referee	66	16	0	14	0	16	0	15
Unknown TestType	Unknown Program	Test and Repair	1,463	61	0	14	41	153	41	22

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
UnKnown TestType	Unknown Program	Test and Repair Dealer	66	1	0	0	1	1	1	0
UnKnown TestType	Unknown Program	Test Only	1,383	46	0	11	31	101	31	18